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FIG. 1A

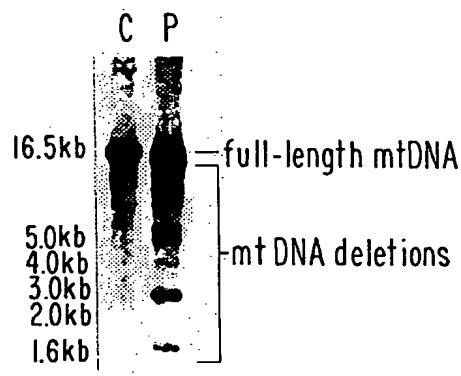


FIG. 1B

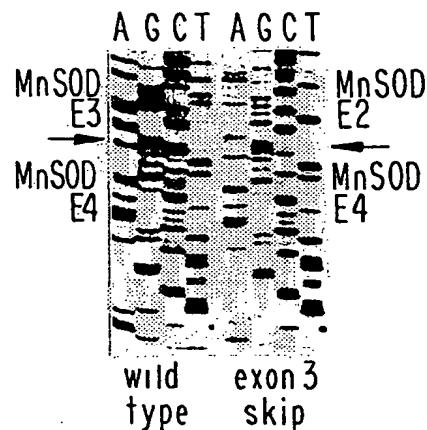


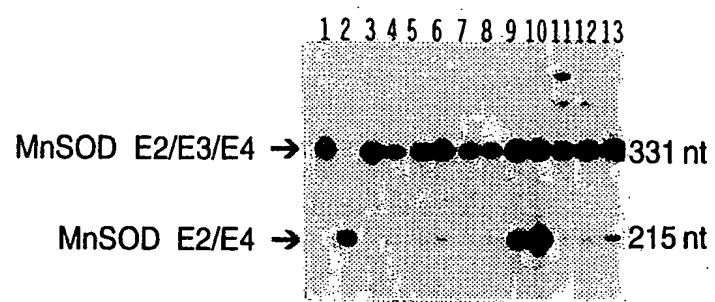
FIG. 1C

EXON 2-TGGCCAAGG/GAGATGTTA-EXON 3-AACCCAAAG/GGGAGTTGC-EXON 4

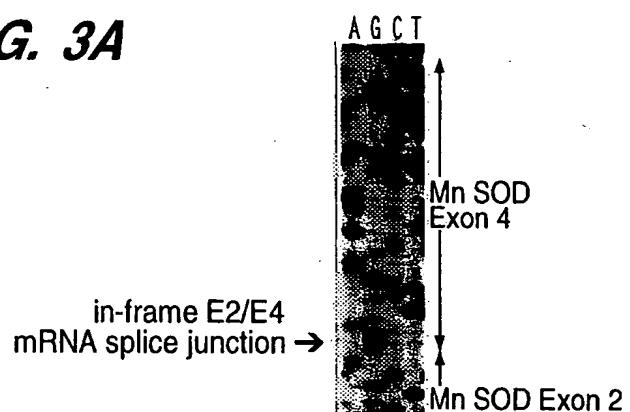
EXON 2-TGGCCAAGG/GGGAGTTGCTGGAAGCCATCAAACGTGA-EXON 4

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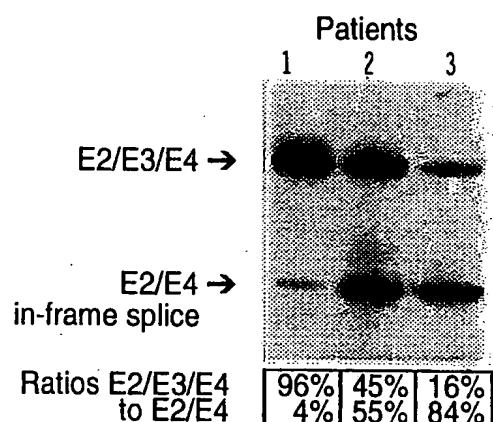
FIG. 2

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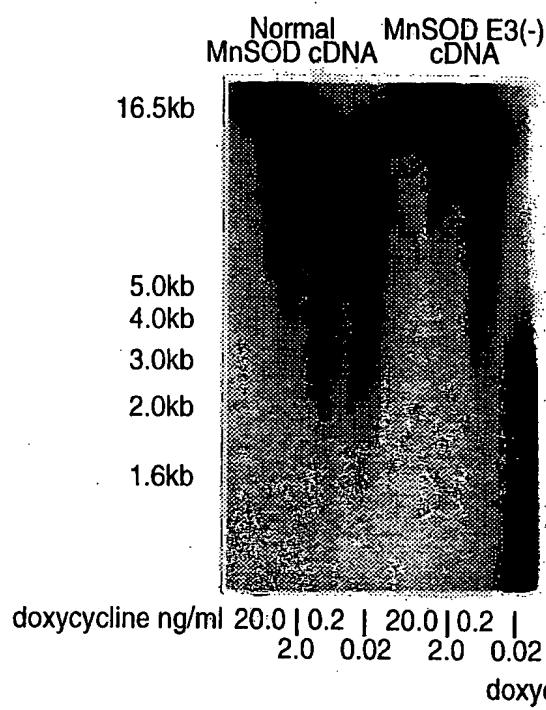
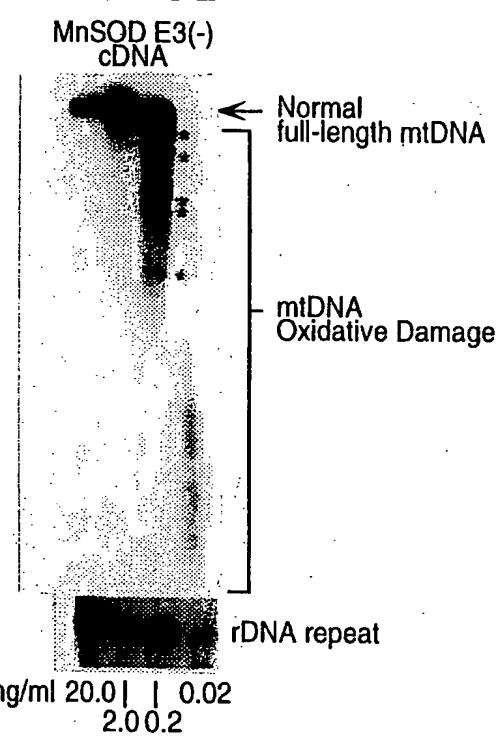
FIG. 3A**FIG. 3B**

A L A K G E L L E A
GCGTTGGCCAAGGGGGAGTTGCTGGAGCC
280 470
Mn SOD Mn SOD
Exon 2 Exon 4

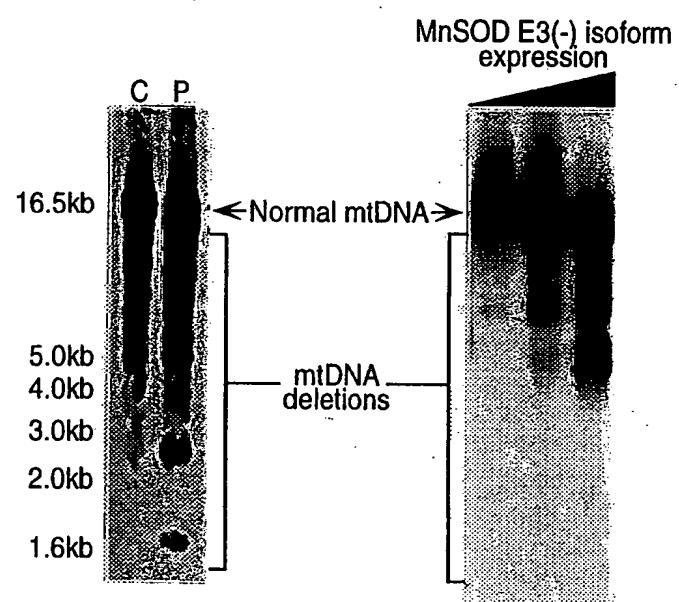
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FIG. 4

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FIG. 5A**FIG. 5B**

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FIG. 6

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FIG. 7

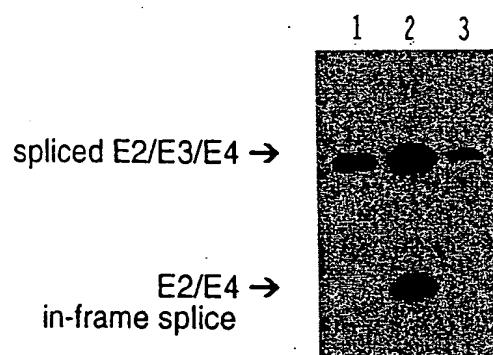
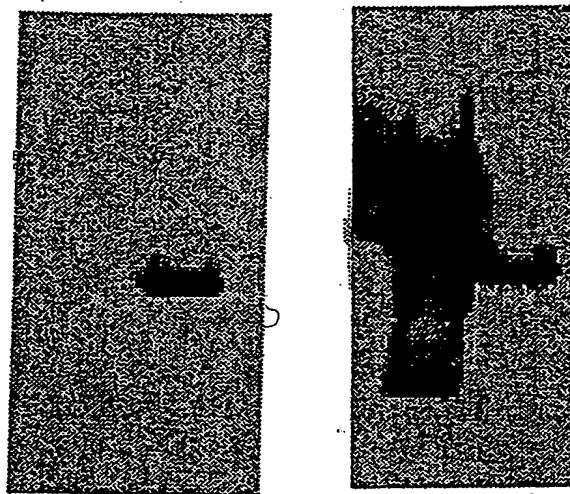


FIG. 8

A B C D

MnSOD E3(-)
protein →



← MnSOD E3(+)
protein

MnSOD
E3(-)
Antibody

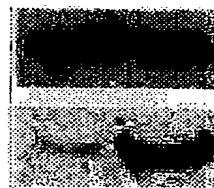
Normal
MnSOD
Antibody

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FIG. 9

1 2

MnSOD antibody



MnSOD E3(-) isoform antibody

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FIG. 10